# CULTURES 1966

P-1 Embia amadorae Ross Portugal: hills above Amadora. Pasture and grain fields. Limestone ledges and rocks at field edges. Embiid tunnels common but embiids in soil. Small culture has 1st instar VII-29-66

P-2 Portugal: Sines Webs common under loose rocks piled on grass on crest of cliffs above sea in town. Numerous 2nd instar VII-29-66

P-3 Portugal: Bridge at Rio Torgal, N. of Odemira. Deep Cyn with flowing creek. Many trees on slopes. Embiids common in leaf litter under dense bushes under large oaks. Small culture obtained. 1st instar VII-29-66

S-1 Spain: Sevilla. Embiid webs common on bark of palms in gardens of Alcazar and in city park. Not on other trees. Appears to be solieri. 1st instar VII-29-66 solieri - parthenogenetic

S-2 Spain: Zahara. 37 km N. Tarifa (n. of Cadiz) VII-14-66. Extensive cork oak forest. Embiids common under stones but mostly in matted oak leaves under trees. 2nd instar present VII-29-66

S-3 Spain: Sierra Bermeja, 14 km S. Ronda. Barren heights with numerous limestone ledges and stones. Embiids abundant under every stone. Season to be about 3,500' elev.

S-4 Spain: Bulanegra, 41 km W. Almeria. Barren bluffs near sea. Unusual rain had moistened ground Embiids common under small stones. Seems to be a small species. Photographed neuropterids here. VII-16-66 after S-5

S-5 Spain: 10 km N. Motril VII-16-66 Stones about base of limestone crags in almond grove about 1500' elev. very dry

S-6 Spain: 7 km W. Tiburnes (Almería) under stones in alkaline desert near bridge and old adobe (look photo of Palms + mtns) 1 ♂ Mat VII-26-66

S-7 Spain: 10 km S.W. Mazarron VII-17-66 Stones in desert. Webs sum across ground very large appear to be Haplembia palani 1st instar VII-26-66

S-8 Spain: 10 km S.E. Ciega Low hills with natural small pines. dry apparently only 2 embiids juv. cultured VII-18-66

S-9 Spain: 7 km S. Pozo Cañada (30 km S. Albacete) VII-18-66 Patch of pines and oaks in low hills. Grain fields on flats. Recent rain very small webs under stones under pines no specimens. Culture from larger webs under stones and matted leaves under large oaks. May be mixed culture

5-10 Spain: 4 km E. Munera VII-19-66 Barren rolling countryside limestone ledges, dense low scrub, grain fields took cart pine here, ants, etc. Embia numerous 1st instar VII-26-66

5-11 Spain: (Embia fuentei Navas type loc.) Pozuelo de Calatrava (just S. of Ciudad Real) VII-19-66. Several ♀ and eggs under stones on grass at margin of salt lake soil damp due to water table ♂♂ more eggs down in clumps held in jaws when disturbed Numerous 1st & 2nd instar VII-26-66.

5-12 Spain: 4 km S. Barraco (Madrid Prov.) about 1000 M good culture under stones beneath oaks VII-20-66

L-1 Liberia: Harbel Shade trees near office Firestone Plantation VII-31-66 Trunks and limbs matted with webs of Para liberica and some scattered O. saundersii Most of liberica adult ♀ with eggs or 1st instar a few large juvs and 2 adult ♂♂ seen. Liberica scattered in virgin forest. Outer webs slightly spotted with frass. Eggs laid in masses in frass and covered over with silk. Protective nest merely may be layers of large tunnels.

L-2 Liberia: Harbel Forest patch on hill in plantation. Culture probably entirely a small teratembiid with some penult ♂♂ in bark crevices and tufts of moss webs naked, small VII-31-66

L-3 Same as L-2 but contains at least 3 spp.
1. Entirely black ♀ from pure white naked gallery patches Seems to be Notoscelembia Colonies often on smooth bark
2. Tan juv with dark head in galleries on soft bark, these spotted with frass
3. Possible teratembiid same as L-2